



ASCII & IEEE-488 BUS CODES

B ⁷ B ⁶ B ⁵ B ⁴ BITS	0 0 0 0		0 0 0 1		0 0 1 0		0 0 1 1		0 1 0 0		0 1 0 1		0 1 1 0		0 1 1 1		1 0 0 0		1 0 0 1	
	B ³	B ²	B ¹	B ⁰	B ³	B ²	B ¹	B ⁰	B ³	B ²	B ¹	B ⁰	B ³	B ²	B ¹	B ⁰	B ³	B ²	B ¹	B ⁰
	CONTROL				NUMBERS SYMBOLS				UPPER CASE				LOWER CASE							
0 0 0 0	0	0	16	10	32	20	48	30	64	40	80	50	96	60	112	70				
	NUL		ρ		SP		0		@		P		'		p					
	NUL		DLE		SPACE MLA0		0 MLA16		@ MTA0		P MTA16		' MSA0		P MSA16					
0 0 0 1	1	1	17	11	33	21	49	31	65	41	81	51	97	61	113	71				
	β		σ		!		1		A		Q		a		q					
	SOH GTL		DC1		! MLA 1		1 MLA17		A MTA1		Q MTA17		a MSA1		q MSA17					
0 0 1 0	2	2	18	12	34	22	50	32	66	42	82	52	98	62	114	72				
	γ		τ		"		2		B		R		b		r					
	STX		DC2		" MLA2		2 MLA18		B MTA2		R MTA18		b MSA2		r MSA18					
0 0 1 1	3	3	19	13	35	23	51	33	67	43	83	53	99	63	115	73				
	δ		υ		#		3		C		S		c		s					
	ETX		DC3		# MLA3		3 MLA19		C MTA3		S MTA19		c MSA3		s MSA19					
0 1 0 0	4	4	20	14	36	24	52	34	68	44	84	54	100	64	116	74				
	€		φ		\$		4		D		T		d		t					
	EOT SDC		DC4 DCL		\$ MLA4		4 MLA20		D MTA4		T MTA20		d MSA4		t MSA20					
0 1 0 1	5	5	21	15	37	25	53	35	69	45	85	55	101	65	117	75				
	ζ		χ		%		5		E		U		e		u					
	ENQ PPC		NAK PPU		% MLA5		5 MLA21		E MTA5		U MTA21		e MSA5		u MSA21					
0 1 1 0	6	6	22	16	38	26	54	36	70	46	86	56	102	66	118	76				
	η		ψ		&		6		F		V		f		v					
	ACK		SYN		& MLA6		6 MLA22		F MTA6		V MTA22		f MSA6		v MSA22					
0 1 1 1	7	7	23	17	39	27	55	37	71	47	87	57	103	67	119	77				
	BEL		ω		'		7		G		W		g		w					
	BEL		ETB		' MLA7		7 MLA23		G MTA7		W MTA23		g MSA7		w MSA23					
1 0 0 0	8	8	24	18	40	28	56	38	72	48	88	58	104	68	120	78				
	BS		Ω		(		8		H		X		h		x					
	BS GET		CAN SPD		(MLA8		8 MLA24		H MTA8		X MTA24		h MSA8		x MSA24					
1 0 0 1	9	9	25	19	41	29	57	39	73	49	89	59	105	69	121	79				
	HT		√		)		9		I		Y		i		y					
	HT TCT		EM SPD		) MI A9		9 MI A25		I MTA9		Y MTA25		i MSA9		x MSA25					

0 1 0 1	5 5 ENQ PPC %	21 15 X NAK PPU	37 25 % MLA5	53 35 5 MLA21	69 45 E MTA5	85 55 U MTA21	101 65 e MSA5	117 75 u MSA21
0 1 1 0	6 6 ACK η	22 16 ↓ SYN	38 26 & MLA6	54 36 6 MLA22	70 46 F MTA6	86 56 V MTA22	102 66 f MSA6	118 76 v MSA22
0 1 1 1	7 7 BEL BEL	23 17 ω ETB	39 27 , MLA7	55 37 7 MLA23	71 47 G MTA7	87 57 W MTA23	103 67 g MSA7	119 77 w MSA23
1 0 0 0	8 8 BS BS GET	24 18 Ω CAN SPE	40 28 (MLA8	56 38 8 MLA24	72 48 H MTA8	88 58 X MTA24	104 68 h MSA8	120 78 x MSA24
1 0 0 1	9 9 HT HT TCT	25 19 √ EM SPD	41 29) MLA9	57 39 9 MLA25	73 49 I MTA9	89 59 Y MTA25	105 69 i MSA9	121 79 y MSA25
1 0 1 0	10 A LF LF	26 1A → SUB	42 2A * MLA10	58 3A : MLA26	74 4A J MTA10	90 5A Z MTA26	106 6A j MSA10	122 7A z MSA26
1 0 1 1	11 B VT VT	27 1B ESC ESC	43 2B + MLA11	59 3B ; MLA27	75 4B K MTA11	91 5B [MTA27	107 6B k MSA11	123 7B { MSA27
1 1 0 0	12 C FF FF	28 1C ↑ FS	44 2C , MLA12	60 3C < MLA28	76 4C L MTA12	92 5C \ MTA28	108 6C l MSA12	124 7C ! MSA28
1 1 0 1	13 D CR CR	29 1D ÷ GS	45 2D - MLA13	61 3D = MLA29	77 4D M MTA13	93 5D] MTA29	109 6D m MSA13	125 7D } MSA29
1 1 1 0	14 E S0 S0	30 2E Σ RS	46 2E . MLA14	62 3E > MLA30	78 4E N MTA14	94 5E ^ MTA30	110 6E n MSA14	126 7E ~ MSA30
1 1 1 1	15 F SI SI	31 1F ≈ US	47 2F / MLA15	63 3F ? UNL	79 4F O MTA15	95 5F — UNT	111 6F o MSA15	127 7F ■ RUB- OUT MSA31
2 ³ 2 ² 2 ¹ 2 ⁰	ADDRESSED UNIVERSAL COMMANDS COMMANDS		LISTEN ADDRESSES		TALK ADDRESSES		SECONDARY ADDRESSES OR COMMANDS	

KEY

decimal

38	26
&	
&	MLA6

ASCII

hex

1722A DISPLAY

